Aeronautics Educator Guide			
2004 Science			
Performance Standards			
Georgia Science			
Grade 2			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	GA	SCI.2.S2CS1.a	Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.
Air Engines (12-16)	GA	SCI.2.S2CS2.a	Use whole numbers in ordering, counting, identifying, measuring, and describing things and experiences.
Air Engines (12-16)	GA	SCI.2.S2CS3.a	Use ordinary hand tools and instruments to construct, measure, and look at objects.
Air Engines (12-16)	GA	SCI.2.S2P3.a	Demonstrate how pushing and pulling an object affects the motion of the object.
Rotor Motor (69-75)	GA	SCI.2.S2CS1.a	Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.
Rotor Motor (69-75)	GA	SCI.2.S2CS5.c	Use simple pictographs and bar graphs to communicate data.
Rotor Motor (69-75)	GA	SCI.2.S2P3.a	Demonstrate how pushing and pulling an object affects the motion of the object.
Flight: Interdisciplinary Learning Activities (76-79)	GA	SCI.2.S2CS2.d	Make quantitative estimates of familiar lengths, weights, and time intervals, and check them by measuring.
Flight: Interdisciplinary Learning Activities (76-79)	GA	SCI.2.S2P3.b	Demonstrate the effects of changes of speed on an object.
Making Time Fly (80-86)	GA	SCI.2.S2CS5.c	Use simple pictographs and bar graphs to communicate data.
Making Time Fly (80-86)	GA	SCI.2.S2CS6.d	All different kinds of people can be and are scientists.
Making Time Fly (80-86)	GA	SCI.2.S2CS7.a	Scientists use a common language with precise definitions of terms to make it easier to communicate their observations to each other.
Where is North? The Compass Can Tell Us (87-90)	GA	SCI.2.S2CS1.a	Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.
Let's Build a Table Top Airport (91-96)	GA	SCI.2.S2CS4.b	Use a model - such as a toy or a picture - to describe a feature of the primary thing.
Plan to Fly There (97-106)	GA	SCI.2.S2CS2.d	Make quantitative estimates of familiar lengths, weights, and time intervals, and check them by measuring.
Plan to Fly There (97-106)	GA	SCI.2.S2CS7.a	Scientists use a common language with precise definitions of terms to make it easier to communicate their observations to each other.

Plan to Fly There (97-106)	GA	SCI.2.S2P3.b	Demonstrate the effects of changes of speed on an object.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	GA	SCI.2.S2CS2.d	Make quantitative estimates of familiar lengths, weights, and time intervals, and check them by measuring.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	GA	SCI.2.S2CS4.b	Use a model - such as a toy or a picture - to describe a feature of the primary thing.
Dunked Napkin (17-22)	GA	SCI.2.S2CS1.a	Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.
Dunked Napkin (17-22)	GA	SCI.2.S2CS6.a	When a science investigation is done the way it was done before, we expect to get a similar result.
Dunked Napkin (17-22)	GA	SCI.2.S2CS6.b	Science involves collecting data and testing hypotheses.
Dunked Napkin (17-22)	GA	SCI.2.S2CS6.c	Scientists often repeat experiments multiple times and subject their ideas to criticism by other scientists who may disagree with them and do further tests.
Paper Bag Mask (23-28)	GA	SCI.2.S2CS1.a	Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.
Paper Bag Mask (23-28)	GA	SCI.2.S2CS2.a	Use whole numbers in ordering, counting, identifying, measuring, and describing things and experiences.
Paper Bag Mask (23-28)	GA	SCI.2.S2CS2.d	Make quantitative estimates of familiar lengths, weights, and time intervals, and check them by measuring.
Paper Bag Mask (23-28)	GA	SCI.2.S2CS3.a	Use ordinary hand tools and instruments to construct, measure, and look at objects.
Paper Bag Mask (23-28)	GA	SCI.2.S2CS5.a	Describe and compare things in terms of number, shape, texture, size, weight, color, and motion.
Paper Bag Mask (23-28)	GA	SCI.2.S2CS6.c	Scientists often repeat experiments multiple times and subject their ideas to criticism by other scientists who may disagree with them and do further tests.
Wind in Your Socks) (29-35)	GA	SCI.2.S2CS1.a	Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.
Wind in Your Socks) (29-35)	GA	SCI.2.S2CS2.a	Use whole numbers in ordering, counting, identifying, measuring, and describing things and experiences.
Wind in Your Socks) (29-35)	GA	SCI.2.S2CS2.d	Make quantitative estimates of familiar lengths, weights, and time intervals, and check them by measuring.
Wind in Your Socks) (29-35)	GA	SCI.2.S2CS3.a	Use ordinary hand tools and instruments to construct, measure, and look at objects.

Wind in Your Socks) (29-35)	GA	SCI.2.S2CS7.c	Tools such as thermometers, rulers and balances often give more information about things than can be obtained by just observing things without help.
Bag Balloons (40-43)	GA	SCI.2.S2CS1.a	Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.
Sled Kite (44-51)	GA	SCI.2.S2CS1.a	Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.
Sled Kite (44-51)	GA	SCI.2.S2CS3.a	Use ordinary hand tools and instruments to construct, measure, and look at objects.
Right Flight (52-59)	GA	SCI.2.S2CS1.a	Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.
Right Flight (52-59)	GA	SCI.2.S2CS4.b	Use a model - such as a toy or a picture - to describe a feature of the primary thing.
Delta Wing Glider (60-68)	GA	SCI.2.S2CS1.a	Raise questions about the world around them and be willing to seek answers to some of the questions by making careful observations and measurements and trying to figure things out.
Delta Wing Glider (60-68)	GA	SCI.2.S2CS4.b	Use a model - such as a toy or a picture - to describe a feature of the primary thing.
Aeronautics Educator Guide			
2004 Science			
Performance Standards			
Georgia Science			
Grade 3			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	GA	SCI.3.S3CS2.c	Judge whether measurements and computations of quantities, such as length, weight, or time, are reasonable answers to scientific problems by comparing them to typical values.
Rotor Motor (69-75)	GA	SCI.3.S3CS4.b	Use geometric figures, number sequences, graphs, diagrams, sketches, number lines, maps, and stories to represent corresponding features of objects, events, and processes in the real world.
Flight: Interdisciplinary Learning Activities (76-79)	GA	SCI.3.S3CS4.b	Use geometric figures, number sequences, graphs, diagrams, sketches, number lines, maps, and stories to represent corresponding features of objects, events, and processes in the real world.
Making Time Fly (80-86)	GA	SCI.3.S3CS8.d	Science involves many different kinds of work and engages men and women of all ages and backgrounds.

Let's Build a Table Top Airport (91-96)	GA	SCI.3.S3CS4.b	Use geometric figures, number sequences, graphs, diagrams, sketches, number lines, maps, and stories to represent corresponding features of objects, events, and processes in the real world.
Plan to Fly There (97-106)	GA	SCI.3.S3CS2.c	Judge whether measurements and computations of quantities, such as length, weight, or time, are reasonable answers to scientific problems by comparing them to typical values.
We Can Fly, You and I: Interdisciplinary Learning (107-108)	GA	SCI.3.S3CS4.b	Use geometric figures, number sequences, graphs, diagrams, sketches, number lines, maps, and stories to represent corresponding features of objects, events, and processes in the real world.
Dunked Napkin (17-22)	GA	SCI.3.S3CS1.b	Offer reasons for findings and consider reasons suggested by others.
Dunked Napkin (17-22)	GA	SCI.3.S3CS7.a	Similar scientific investigations seldom produce exactly the same results, which may differ due to unexpected differences in whatever is being investigated, unrecognized differences in the methods or circumstances of the investigation, or observational uncertainties.
Paper Bag Mask (23-28)	GA	SCI.3.S3CS2.c	Judge whether measurements and computations of quantities, such as length, weight, or time, are reasonable answers to scientific problems by comparing them to typical values.
Paper Bag Mask (23-28)	GA	SCI.3.S3CS8.c	Scientists use technology to increase their power to observe things and to measure and compare things accurately.
Wind in Your Socks) (29-35)	GA	SCI.3.S3CS2.c	Judge whether measurements and computations of quantities, such as length, weight, or time, are reasonable answers to scientific problems by comparing them to typical values.
Sled Kite (44-51)	GA	SCI.3.S3CS8.c	Scientists use technology to increase their power to observe things and to measure and compare things accurately.
Aeronautics Educator Guide			
2004 Science			
Performance Standards			
Georgia Science			
Grade 4			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	GA	SCI.4.S4CS1.b	Carefully distinguish observations from ideas and speculation about those observations.
Air Engines (12-16)	GA	SCI.4.S4CS2.c	Judge whether measurements and computations of quantities, such as length, area, volume, weight, or time, are reasonable answers to scientific problems by comparing them to typical values.

Flight: Interdisciplinary Learning Activities (76-79)	GA	SCI.4.S4CS4.b	Use geometric figures, number sequences, graphs, diagrams, sketches, number lines, maps, and stories to represent corresponding features of objects, events, and processes in the real world. Identify ways in which the representations do not match their original counterparts.
Flight: Interdisciplinary Learning Activities (76-79)	GA	SCI.4.S4P3.b	Using different size objects, observe how force affects speed and motion.
Flight: Interdisciplinary Learning Activities (76-79)	GA	SCI.4.S4P3.c	Explain what happens to the speed or direction of an object when a greater force than the initial one is applied.
Making Time Fly (80-86)	GA	SCI.4.S4CS5.c	Use numerical data in describing and comparing objects and events.
Making Time Fly (80-86)	GA	SCI.4.S4CS8.d	Science involves many different kinds of work and engages men and women of all ages and backgrounds.
Plan to Fly There (97-106)	GA	SCI.4.S4CS2.c	Judge whether measurements and computations of quantities, such as length, area, volume, weight, or time, are reasonable answers to scientific problems by comparing them to typical values.
Plan to Fly There (97-106)	GA	SCI.4.S4P3.b	Using different size objects, observe how force affects speed and motion.
Dunked Napkin (17-22)	GA	SCI.4.S4CS1.c	Offer reasons for findings and consider reasons suggested by others.
Dunked Napkin (17-22)	GA	SCI.4.S4CS3.c	Use computers, cameras and recording devices for capturing information.
Dunked Napkin (17-22)	GA	SCI.4.S4CS8.a	Scientific investigations may take many different forms, including observing what things are like or what is happening somewhere, collecting specimens for analysis, and doing experiments.
Dunked Napkin (17-22)	GA	SCI.4.S4E3.b	Identify the temperatures at which water becomes a solid and at which water becomes a gas.
Paper Bag Mask (23-28)	GA	SCI.4.S4CS2.c	Judge whether measurements and computations of quantities, such as length, area, volume, weight, or time, are reasonable answers to scientific problems by comparing them to typical values.
Wind in Your Socks) (29-35)	GA	SCI.4.S4CS1.b	Carefully distinguish observations from ideas and speculation about those observations.
Wind in Your Socks) (29-35)	GA	SCI.4.S4CS2.c	Judge whether measurements and computations of quantities, such as length, area, volume, weight, or time, are reasonable answers to scientific problems by comparing them to typical values.

Right Flight (52-59)	GA	SCI.4.S4CS4.b	Use geometric figures, number sequences, graphs, diagrams, sketches, number lines, maps, and stories to represent corresponding features of objects, events, and processes in the real world. Identify ways in which the representations do not match their original counterparts.
Delta Wing Glider (60-68)	GA	SCI.4.S4CS4.b	Use geometric figures, number sequences, graphs, diagrams, sketches, number lines, maps, and stories to represent corresponding features of objects, events, and processes in the real world. Identify ways in which the representations do not match their original counterparts.